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7 May 1956

CMCC Doc. No. 151X5.99

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Dear Dick:

1. We are submitting herewith our proposal for development of electronic System No. 4. This proposal is presented in four parts, the first of which is entitled Exhibit A and provides a statement of work to be accomplished under the program proposed. A second part, entitled Exhibit B, presents a program schedule indicating the times of completion of the several tasks involved; the third part, entitled Exhibit C, provides a cost estimate for conduct of the work to be performed, while the fourth part consists of a technical exhibit which provides a discussion of the factors underlying design of the proposed system and a description of the elements comprised in System 4 and their functions and inter-relationships.

2. That portion of the program relating to development of equipment for operation at frequencies below 10,000 mc will be in position to benefit substantially from prior work performed in governmentally-controlled laboratories and industrial laboratories whose activities have encompassed work in the microwave receiver field. Comparatively little work has been done, however, on narrow-band scanning receivers operating in that portion of the spectrum extending from 10,000 mc to 40,000 mc, and it is anticipated that a substantial amount of pioneering effort will be required to produce receivers exhibiting all or most of the characteristics desired. The situation in this portion of the spectrum is made doubly difficult because of the paucity of test equipment designed to operate at the frequencies involved. The effectiveness of our efforts will undoubtedly be enhanced considerably if we can secure reasonable access to the results of work completed or being performed by other organizations performing work in this field under military contract, and we shall undoubtedly seek to enlist the aid of your office in establishing such contacts as the need arises.

3. The estimated cost of conducting the work proposed, including the development and testing of "breadboard" equipment and prototype equipment, is [ ] and the fee for conduct of the work on a cost-plus-fixed-fee basis, calculated at [ ] of the cost, is [ ]. The total estimated cost of the program, therefore, is [ ].

4. Under the verbal authorization given previously by George, engineering work required for development of System No. 4 is already under way, and the first monthly informal report on the project is scheduled for 15 May

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To: Dick

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1956. This report will include the results of a study which confirms the belief that all System 4 antennas required can be mounted satisfactorily in the lower equipment bay hatch cover. You will recognize immediately the importance of this conclusion, since it indicates that System 4 can be installed in any of the U-2 aircraft at will.

Sincerely,

Dean

Enclosures:

CMCC No. 1131X5.13,  
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CMCC No. 1131X5.14,  
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CMCC No. 1132X5.10,  
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CMCC No. 1133X5.6,  
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